

Arrangement and method for producing therapeutic insoles

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Claims

1. Arrangement for producing therapeutic insoles, consisting of a platform with a scanner (1) for scanning the undersides of the patient's feet, a data
10 processing connection for transmitting the scanned image to a computer, a data processing computer program which converts the transmitted data into working instructions for the control of a milling machine, and of said milling machine which mills a therapeutic insole from a blank according to said working instructions,
15 characterized in that neurological proceptors (3, 4) are placed on the scanner (1) under the patient's foot (2) in accordance with the patient's predisposition, the proceptors (3, 4) are part of a set of standardized proceptors having various dimensions,
20 the proceptors (3, 4) are identified by markings on their underside, and the scanned image contains the identifying markings and the orientation of the proceptors.
2. Arrangement according to Claim 1,
25 characterized in that the markings and orientation of the proceptors constitute the computer information to be converted into working instructions for the control of the milling machine.
- 30 3. Arrangement according Claim 1 or 2, characterized in that the markings are the size and/or form of the proceptors.

4. Arrangement according to Claim 1 or 2,
characterized in that
the markings consist of imprints, coloration, stickers, embossings or some
5 such.
5. Method of producing a therapeutic insole, consisting of the following
steps:
- 10 - Preparing a platform with a scanner (1) for the underside of the patient's
foot;
- Aligning the patient's foot position in accordance with a predetermined
orientation;
- Arranging identified proceptors (3, 4) under the patient's feet according
15 to a predisposition of the patient;
- Scanning the underside of the patient's foot with the proceptors arranged
under it;
- Transmitting the scanned image to a computer;
- Converting the information of the image by the computer into working
20 instructions for controlling a milling machine, whereby the computer is
programmed with computing steps representing the respective markings
and the orientation of the proceptors;
- Milling the therapeutic insoles (5) from prefabricated blanks in
accordance with the working instructions;
25 - whereby the working instructions are substantially based on the
processing of the markings and the orientation of the proceptors and
whereby not only the contours of the therapeutic insole, but also the
dimensions of the proceptors are milled out.
- 30 6. Method according to Claim 5,
characterized in that
the scanning and milling steps follow in automatic sequence.